

Industrial Communications Protocol Cable Solutions

No matter if your design is brand new or you are repairing an older design, General Cable has you covered with our comprehensive line of Carol® Brand protocol cables. Be certain that cabling will not cause you downtime.



Industrial Communications Protocol Cable Solutions

General Cable's complete protocols offering includes:

Network Type / Protocol	Description	Applications	Cable Offering
Data Highway, DH-485	Local Area Network (LAN) designed for factory floor applications; based on EIA RF-485 standard	Light industrial environment, relatively clean, minimum temperature changes	GCR1314
Data Highway Plus, DH+	Baseband LAN used to connect a small number of nodes on a common link or with other industrial networks as part of a plant-wide Computer Integrated Manufacturing facility	Light industrial environment with variations including plenum, high flex, LSZH, Aluminum or Galvanized Steel Interlock Armor, CCW®, gel-filled	GCR1314, GCR1300
RS-485	Serial communication methods for computers and devices; widely used communication interface in data acquisition and control applications where multiple nodes communicate	Light industrial environment, relatively clean, minimum temperature changes	C4841A, C4851A, C4842A, C4852A, C4843A, C4844A, C7112A, C7114A, C7116A, C7118A
HART® Protocol	HART® provides digital communication to microprocessor/microcomputer-based smart analog process control instruments	Light industrial environment, relatively clean, minimum temperature changes	See RS-485; additional cables C2534A, C8123, C8101
ControlNet™	Real-time control network that provides high-speed transport of time-critical inputs, outputs and interlocking data; designed to accommodate high-level information and control needs of many sub-networks and controllers	Light industrial environment with variations including plenum, high flex, high braid coverage, Aluminum or Galvanized Steel Interlock Armor, CCW®	GCR1309
DeviceNet™	Digital, multi-drop network that connects and serves as a communication network between industrial controllers and input and output devices (I/O)	Light industrial environment with variations including high flex, CPE jacket for harsh environments, Class 1 600 V rated for cable tray use, Class 2 300 V for trunk or drop applications	GCR1305, GCR1306, GCR1312, GCR1311, GCR1313, GCR1317, GCR1307, GCR1308
Foundation™ Fieldbus	Digital, serial bi-directional communications protocol used in process control networks that standardizes the interconnection of sensors, actuators, and control devices to one another	Light industrial environment, relatively clean, minimum temperature changes, trunk and/or spur, CCW®	GCR1302, GCR1303, 9989.FB01801120, 9989.FB01802120, 9989.FB01804120, 9989.FB01601118, 9989.FB01602118, 9989.FB01604118
Profibus	Achieved through a fieldbus; based on universal international standards and oriented to the Open System Interconnection reference model per ISO/IEC 7498	Light industrial environment, relatively clean, minimum temperature changes, trunk and/or spur, high flex version, CCW®	GCR1304, GCR1302, 9899.PB02201000
Interbus	Sensor/actuator bus system for process data to increase productivity of machines and manufacturing plants	Light industrial environment, relatively clean, minimum temperature changes	GCR1319, GCR14318
Modbus	Used in multiple master-slave applications to monitor and program devices to communicate between intelligent devices, sensors, and instruments to monitor field devices using personal computers and HMIs	Light industrial environment with variations including plenum, high flex, LSZH, Aluminum or Galvanized Steel Interlock Armor, CCW®	GCR1320, C4841A, C4851A, C4842A, C4852A, C4843A, C4844A, C7112A, GCR1310, C7114A, C7116A, C7118A, GCR1309
CC-Link	IA network that processes both control and information data at high speeds to provide efficient integration of the factory floor and process automation	Light industrial environment, relatively clean, minimum temperature changes	GCR1315, GCR1316
Smart Distributed System (SDS)	Bus system for intelligent sensors and actuators; based on CAN as defined in the Bosch V2.0 CAN specification	Light industrial environment, relatively clean, minimum temperature changes, trunk and/or spur	GCR1332, GCR1334
Seriplex™ Control Bus	Simple method of connecting control system input and output devices using a single cable that reduces installed costs	Light industrial environment with variations including Aluminum Interlock Armor	GCR1330, GCR1331, GCR1333



4 Tesseneer Drive, Highland Heights, Kentucky 41076-9753

GENERAL CABLE and CAROL BRAND are registered trademarks of General Cable Technologies Corporation. HART is a registered trademark of the HART Communication Foundation. ControlNet and DeviceNet are registered trademarks of Open DeviceNet Vendor Association, Inc. (ODVA). Foundation Fieldbus is a trademark of Fieldbus Foundation. Seriplex is a registered trademark of Square D.

©2014, General Cable Technologies Corporation. Highland Heights, KY 41076
All rights reserved. Printed in USA

Telephone: +1 800.950.3512
+1 859.572.8000
www.generalcable.com
Form No. CAR-0152RA-1114
47698